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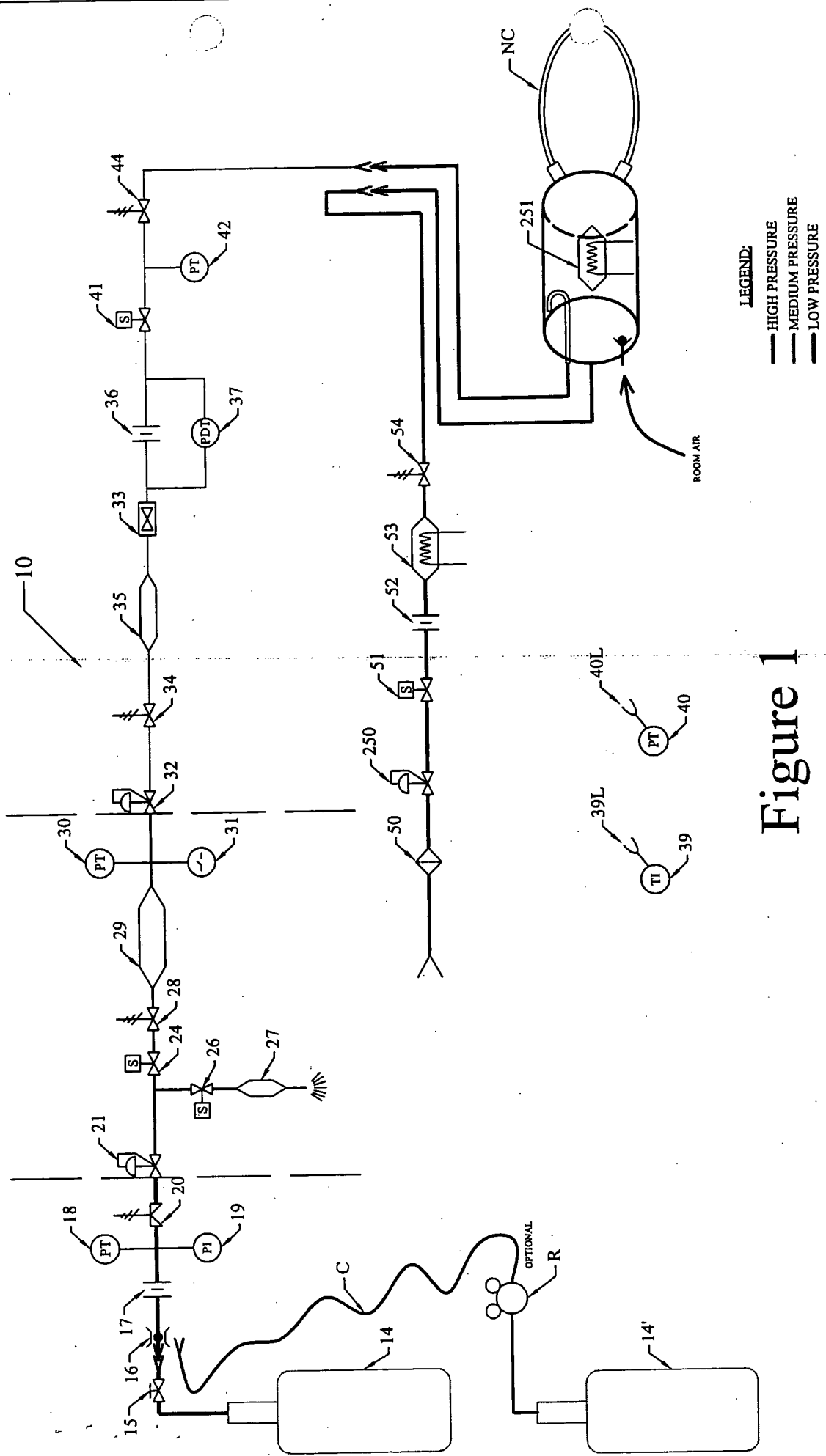
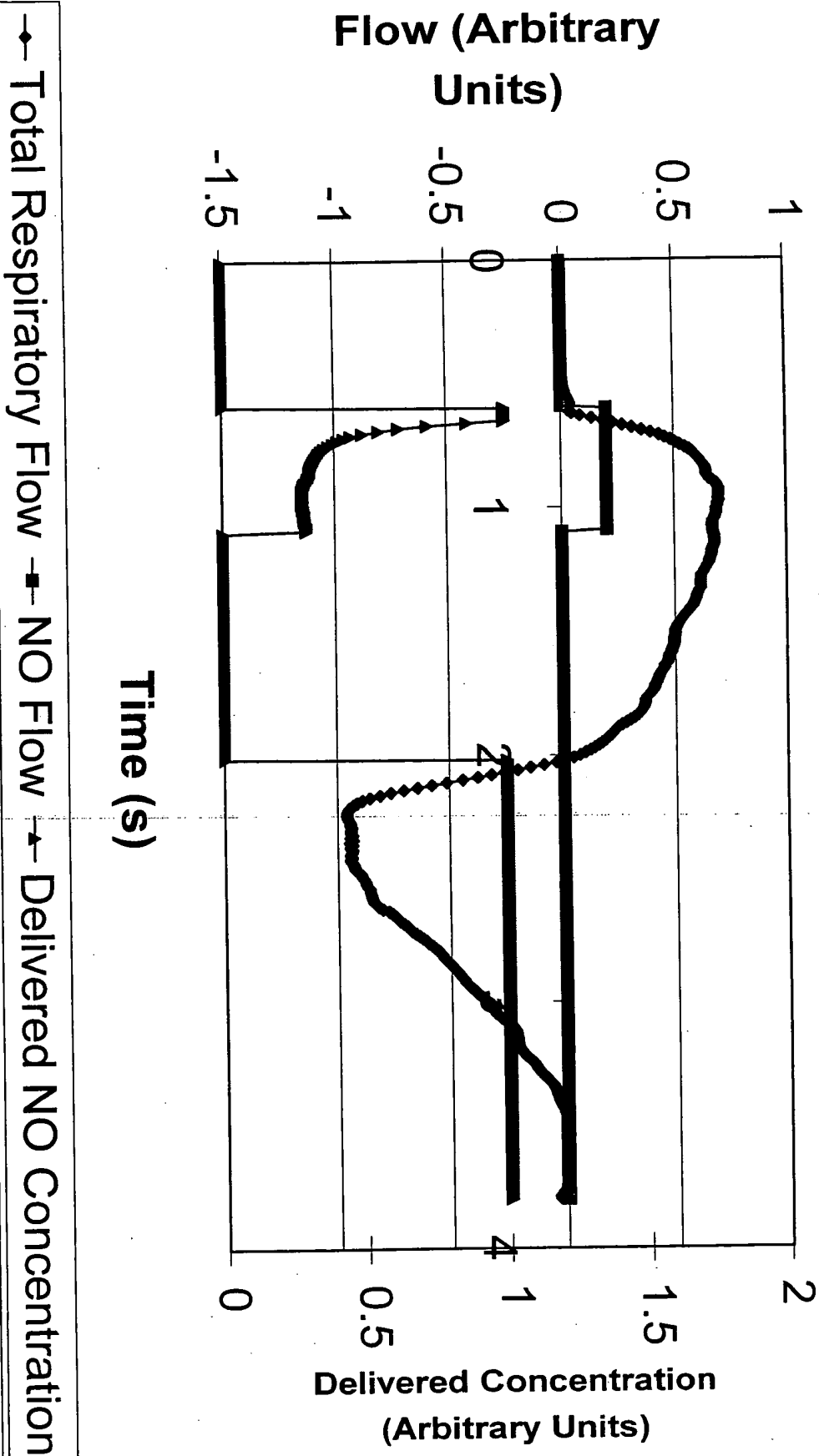
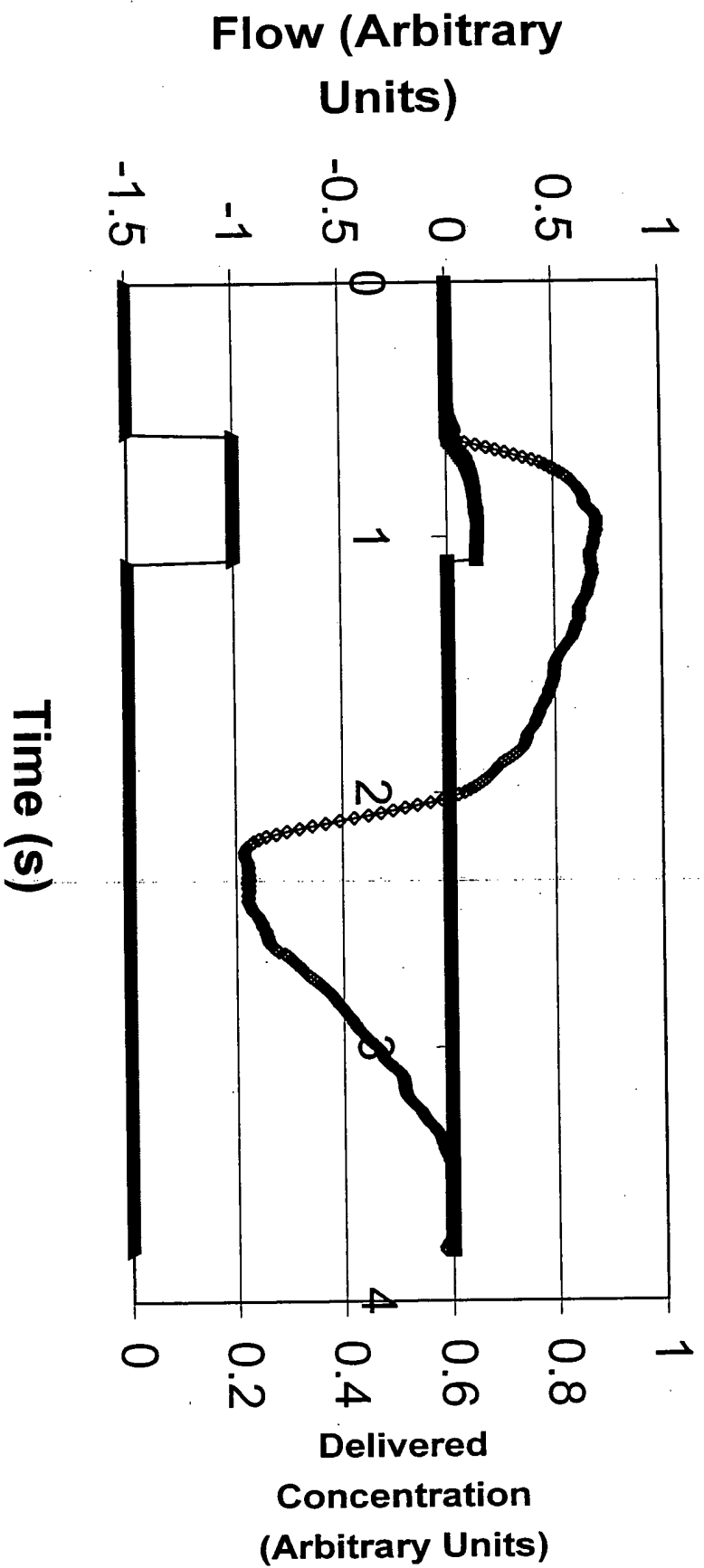


Figure 1

Figure 2: Rectangular Pulse Delivery



**Figure 3: Delivered NO Flow Rate
Proportional to Inspiratory Flow Rate**



◆ Total Respiratory Flow — NO Flow — Delivered NO Concentration

Figure 4: Therapeutic Gas / Flow sensor Interlocking Connectors

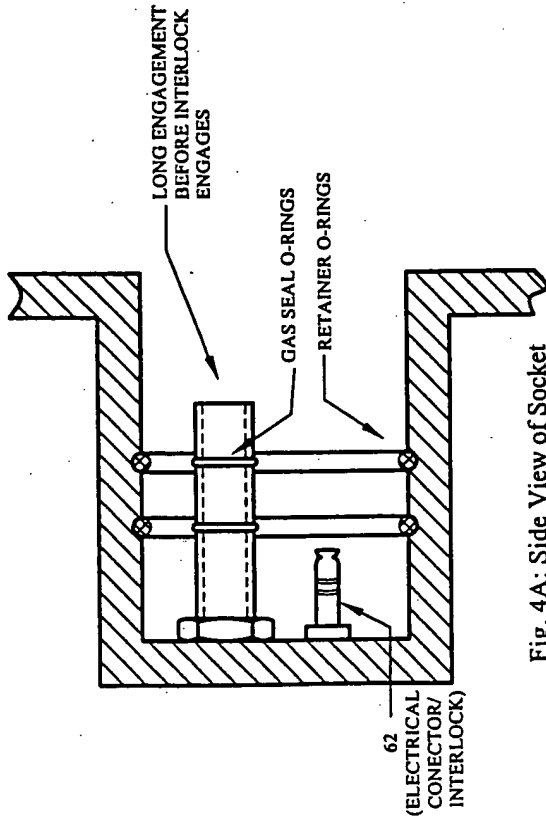


Fig. 4A: Side View of Socket

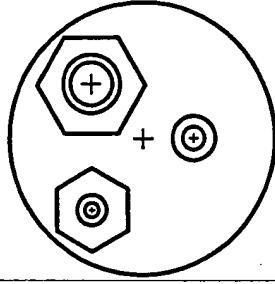


Fig. 4B: Front View of Socket

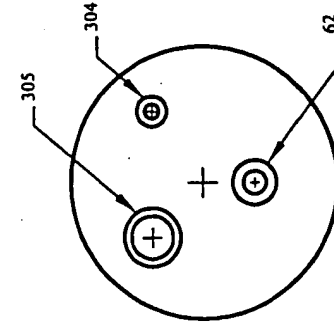


Fig. 4C: Front View of Plug

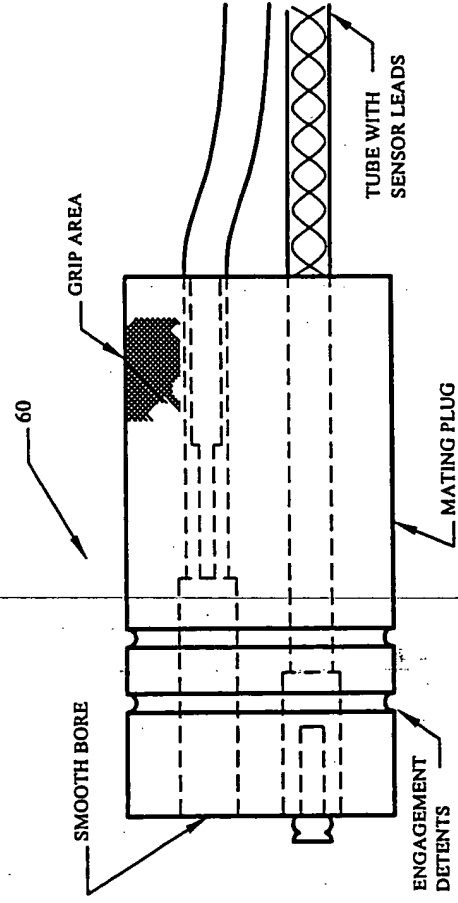


Fig. 4D: Side View of Plug

Figure 5: Air Flow in Cannula and Nose

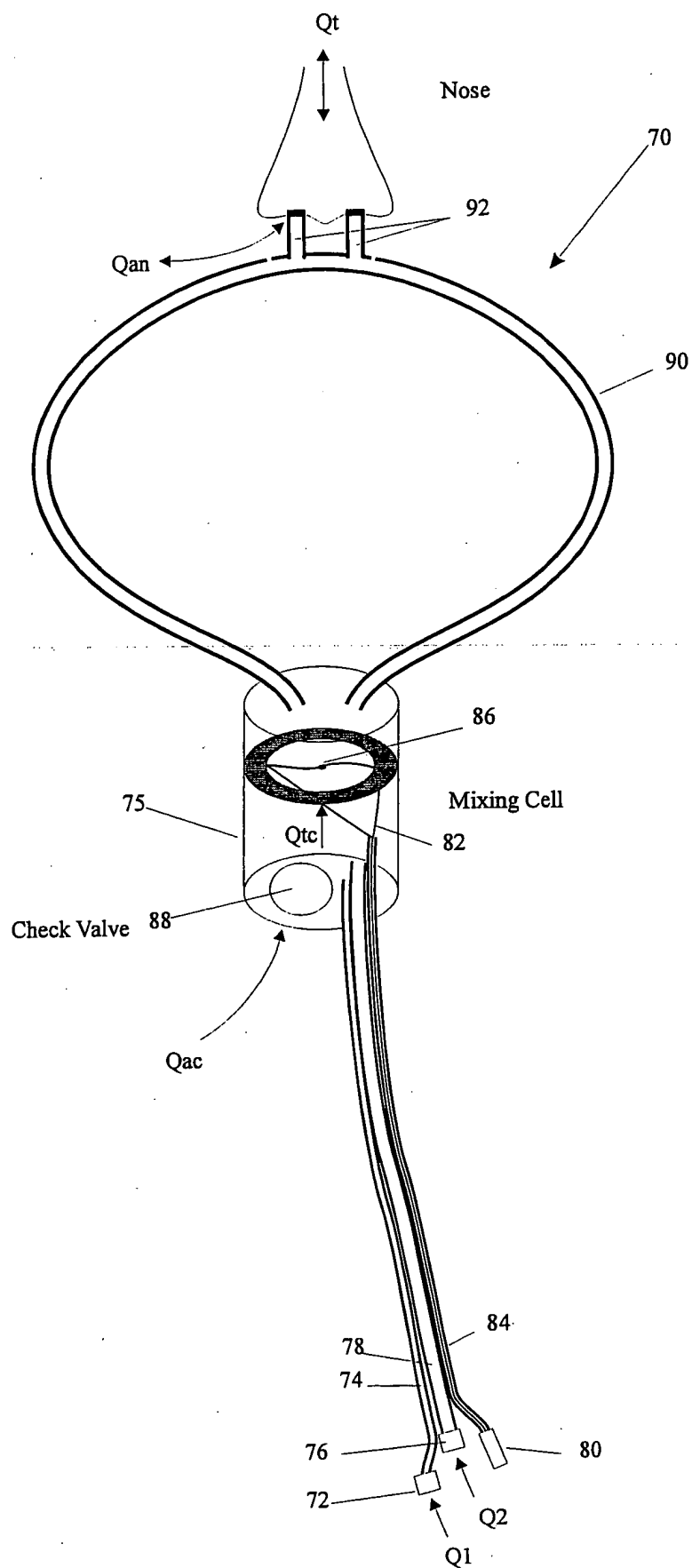


Figure 5A: Diluting cannula with nasal prongs, two therapeutic gases, and wiring conduit

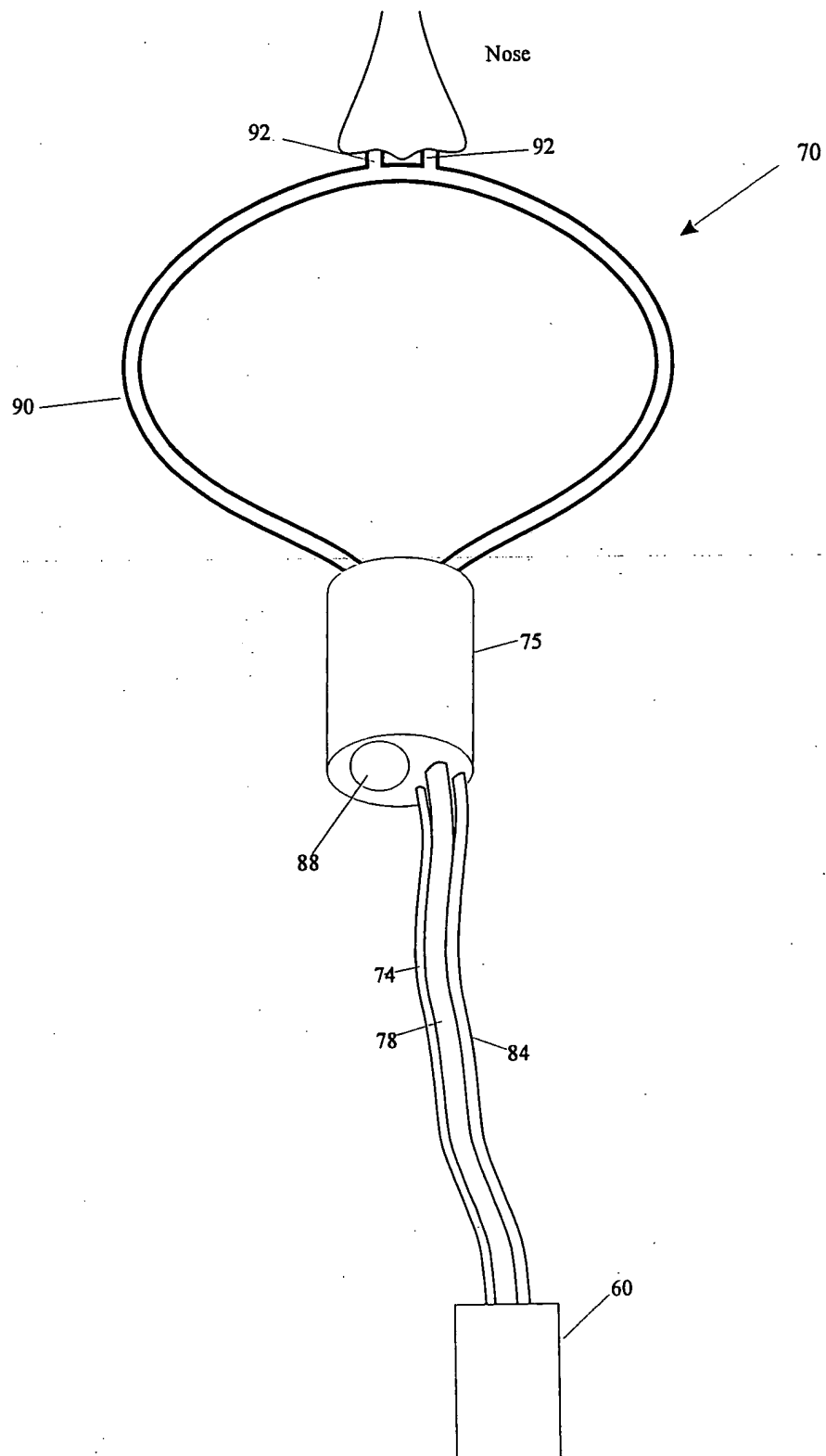


Figure 5B: Short Entrainment Cell

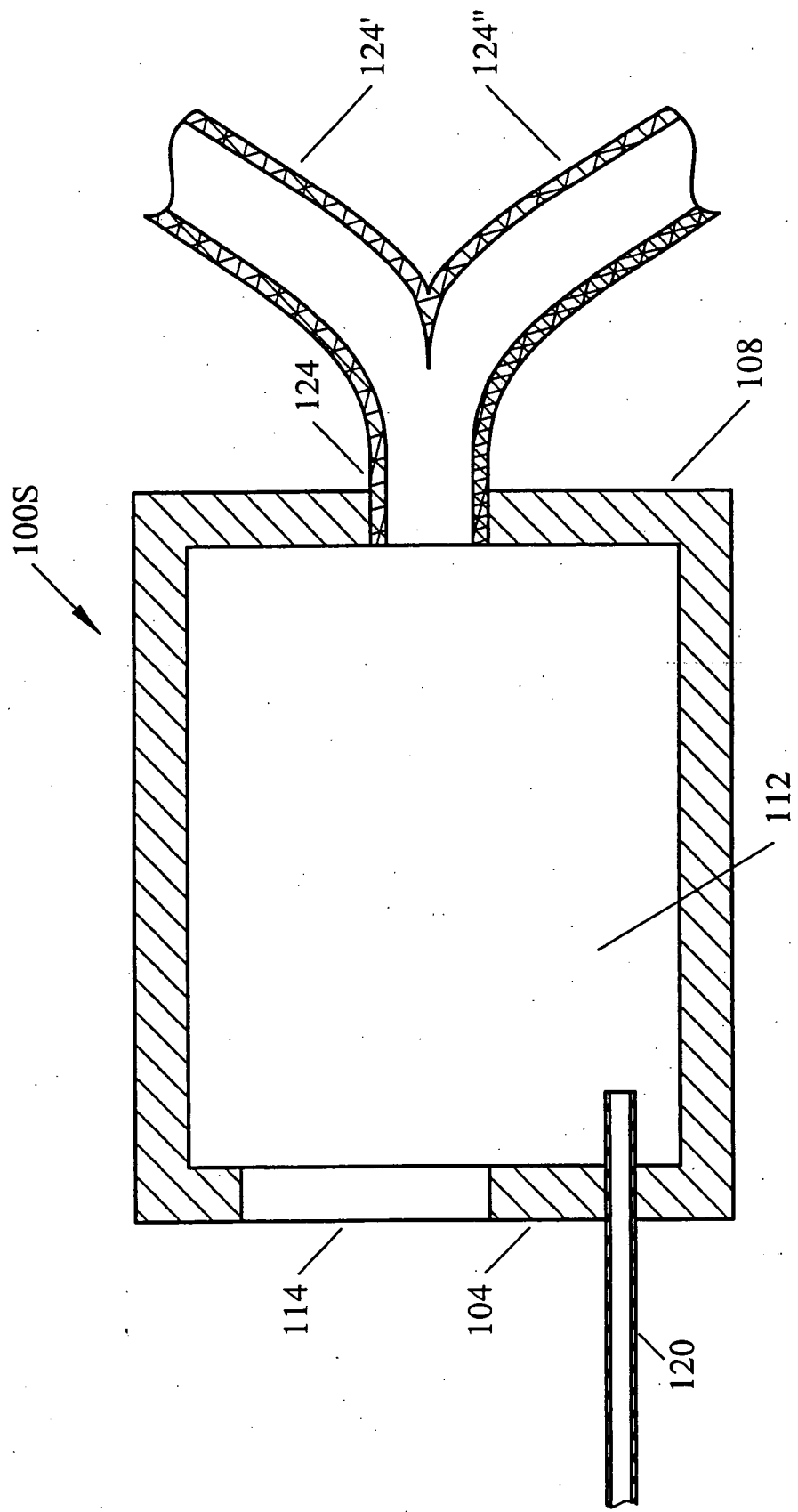


Figure 5C: Diluting cannula with nasal prongs, two therapeutic gases, and mixing near upstream end of entrainment cell

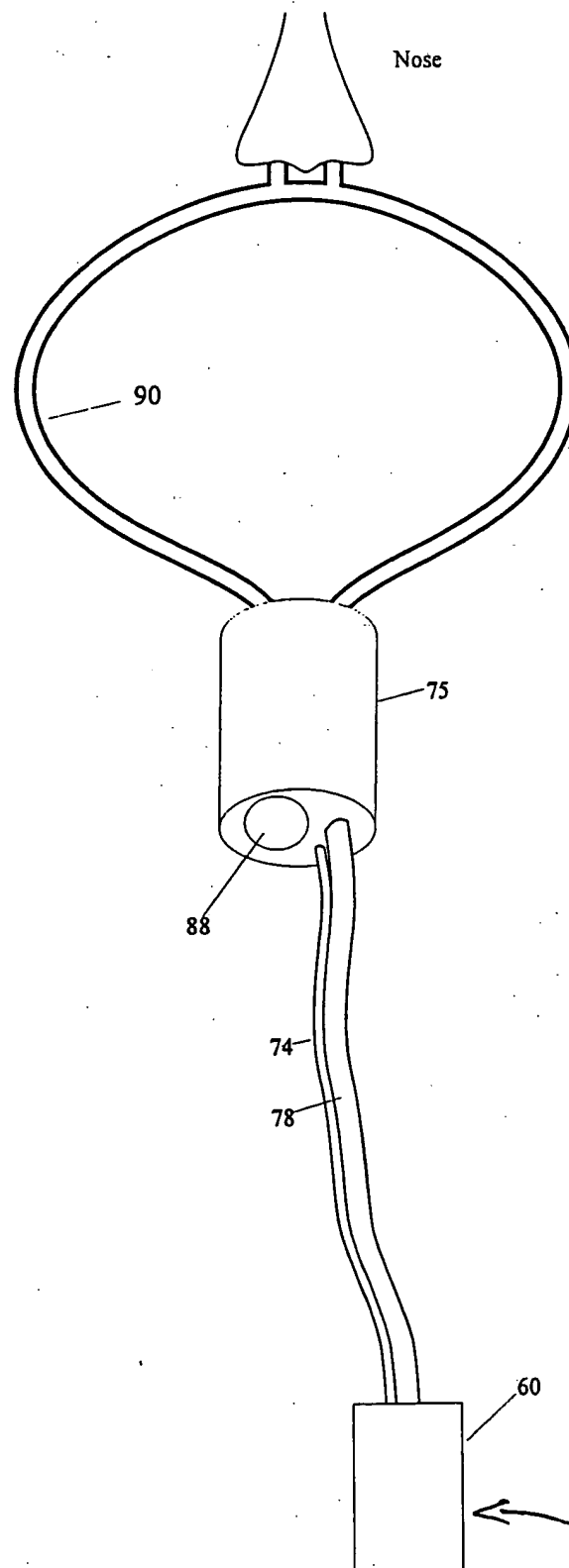


Figure 5D: Diluting cannula with nasal prongs, two therapeutic gases, and mixing of one therapeutic gas near nose

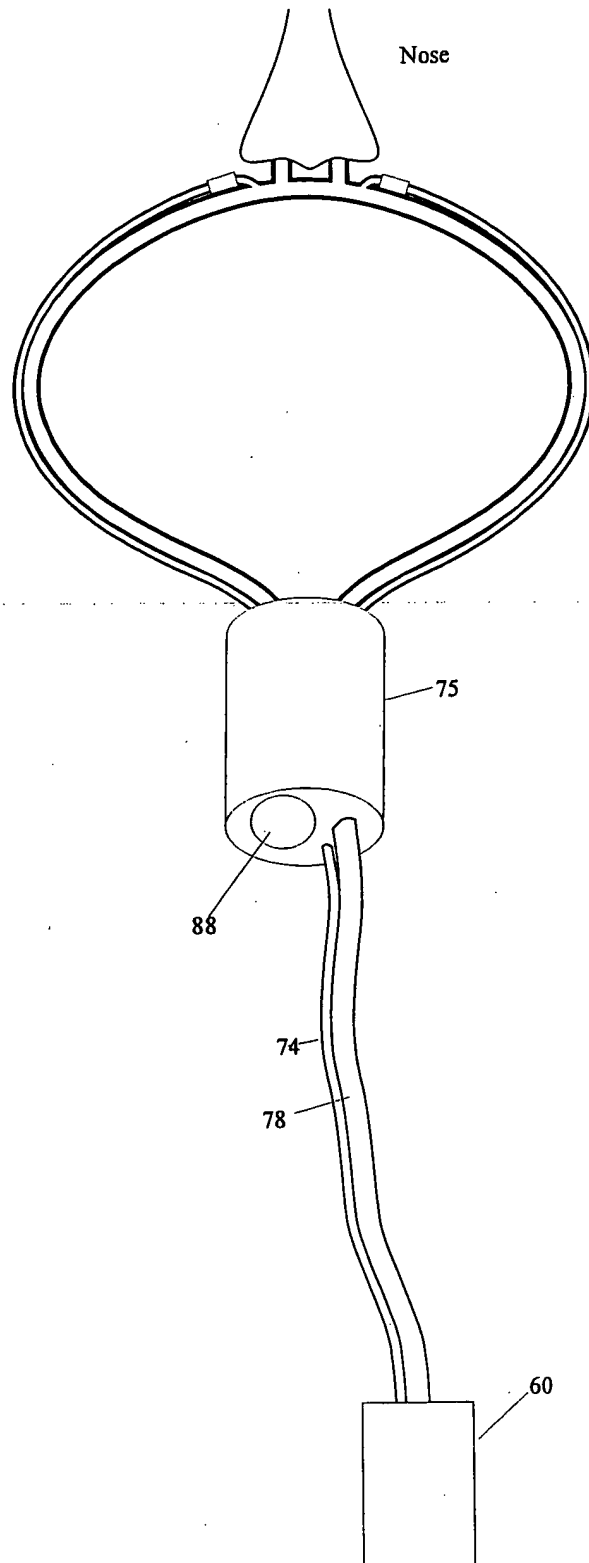
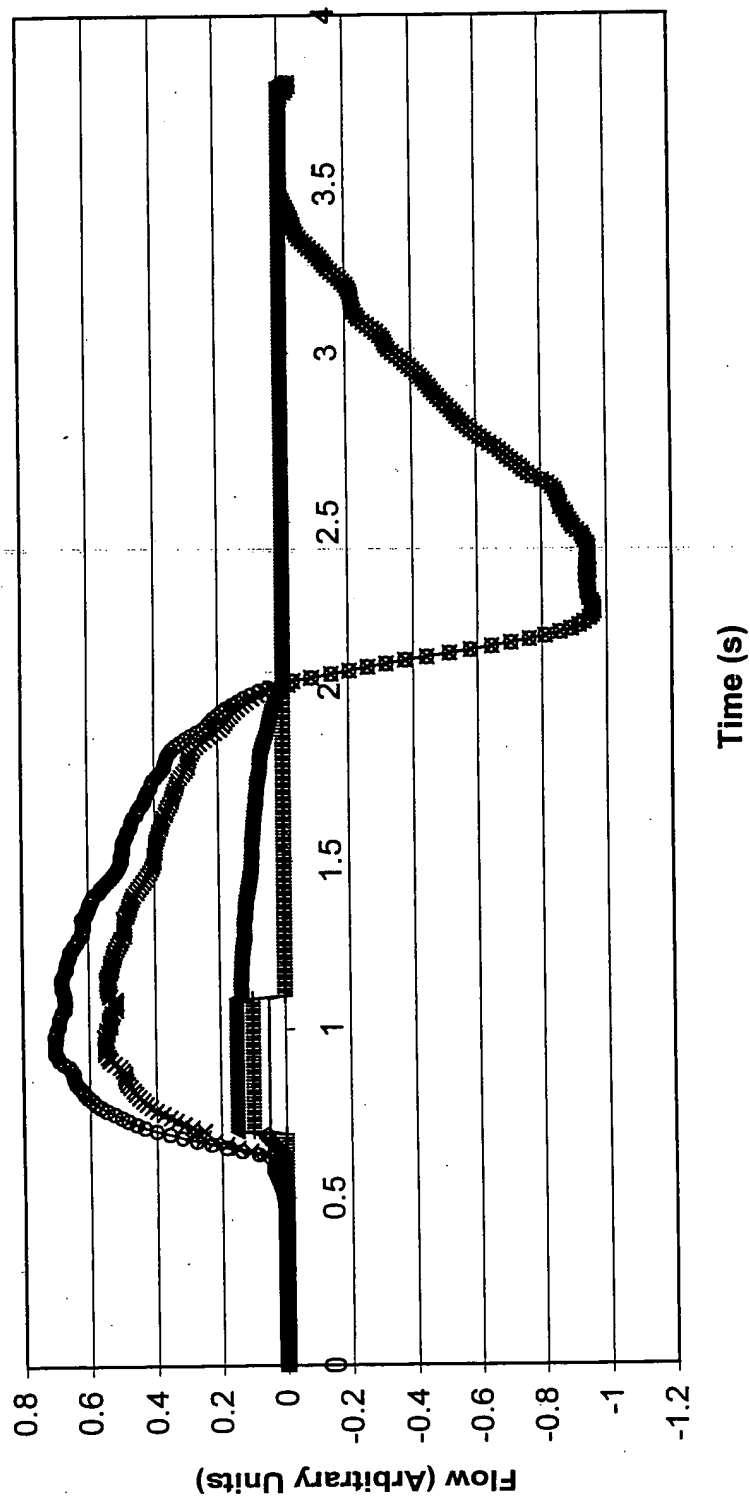
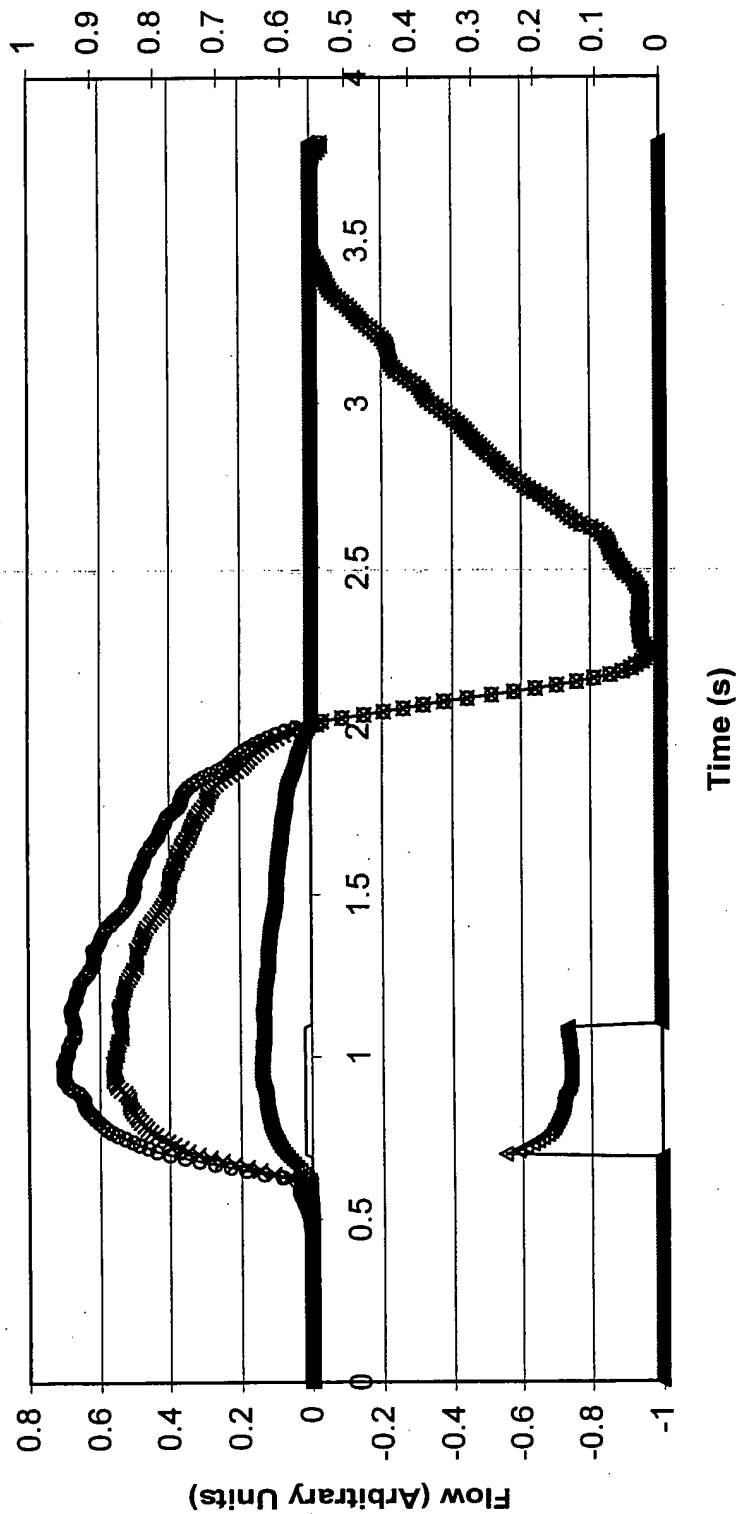


Figure 6: Flow Rates in Cannula and Nose ($Q_2 < 0$)



—○— Qt - Total Respiratory Flow —+— Q1 - Flow of Gas 1 —*— Qan - Nasal Bypass Flow
 —+— Q2 - Flow of Gas 2 —*— Qtc - Total Cannula Flow

Figure 7: Flow Rates in Cannula and Nose and Concentration Exiting Cannula ($Q_2=0$)



- Qt - Total Respiratory Flow
- x— Qan - Nasal Bypass Flow
- ▲— Qtc - Total Cannula Flow
- ▲— Concentration of Gas 1 Exiting Cannula

Figure 8: Mixing region near patient

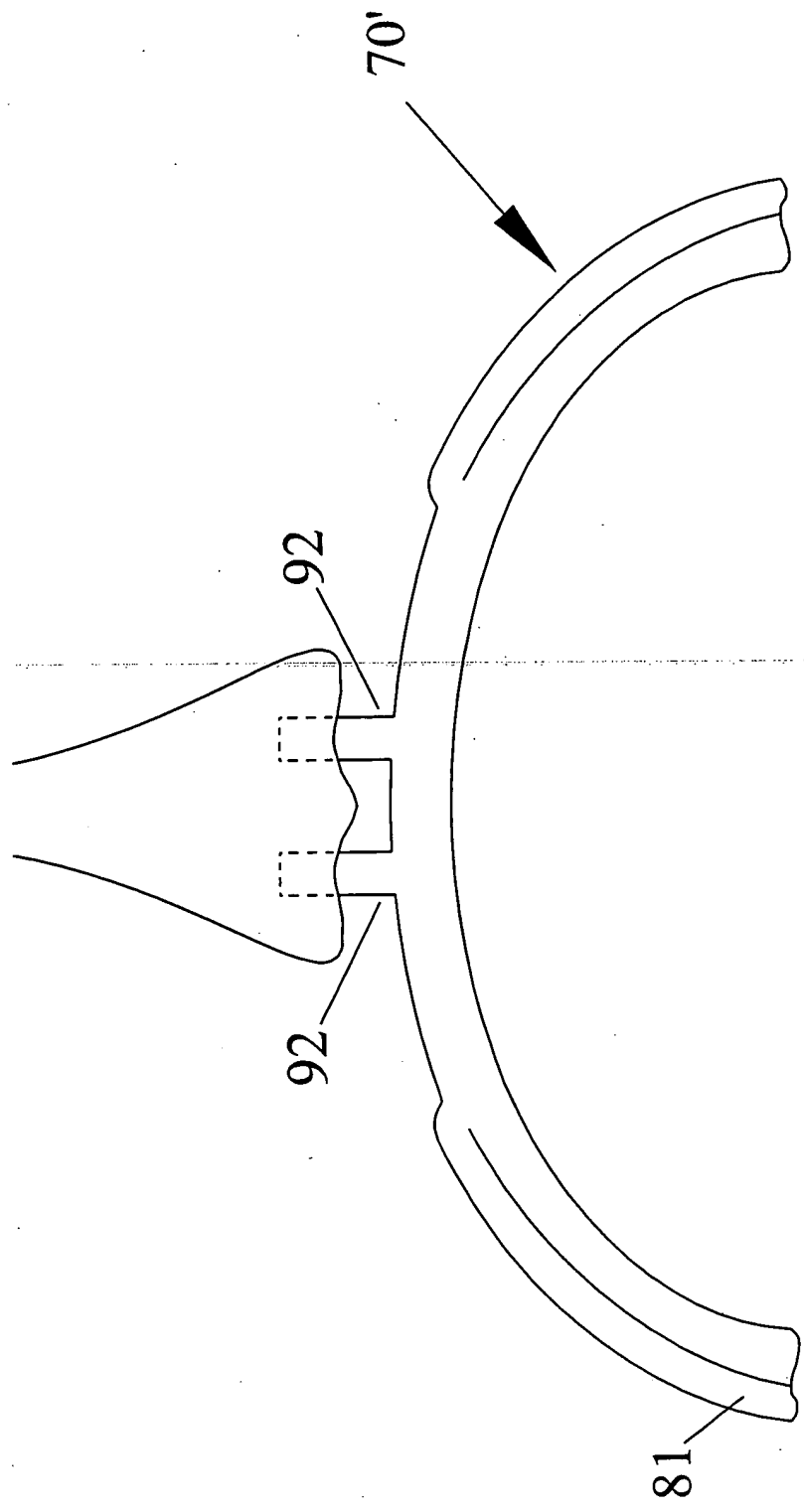


Figure 9: Entrainment Cell - Mixing region
near upstream end of cell

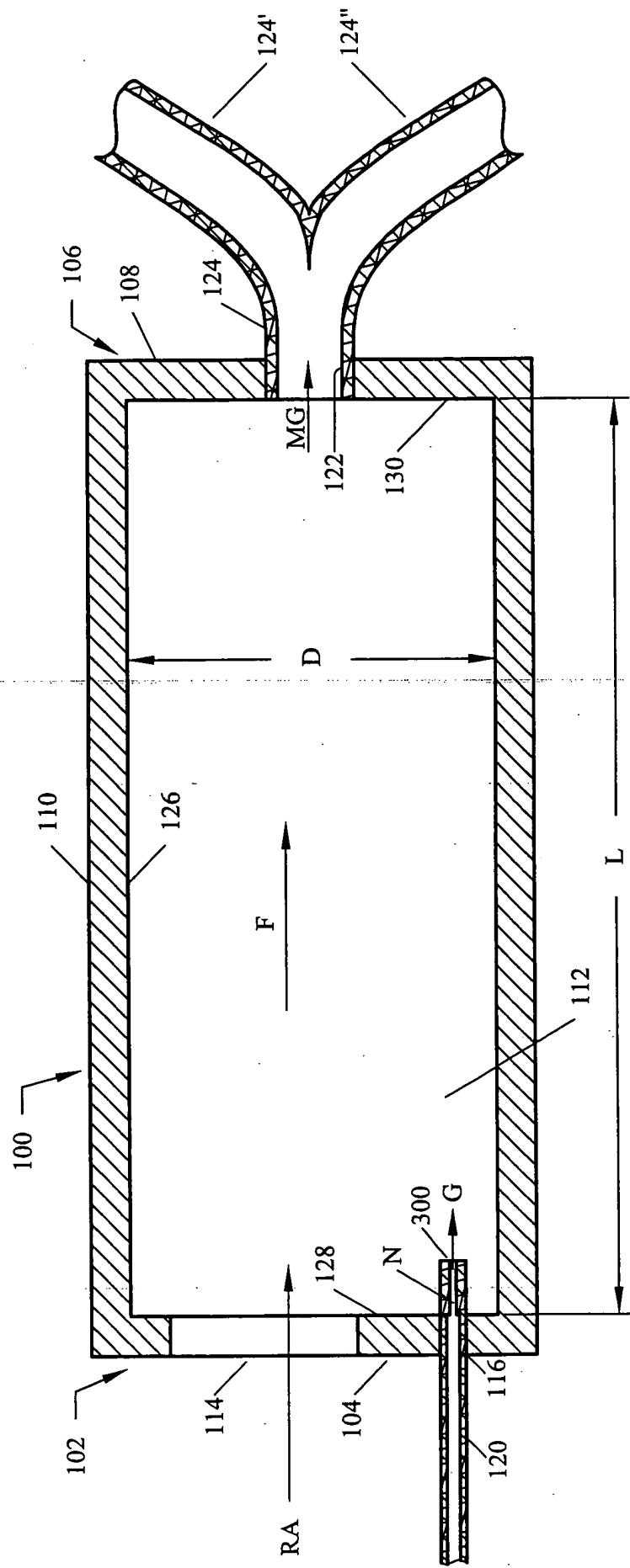


Figure 10: Entrainment Cell with baffle -
Mixing downstream of baffle

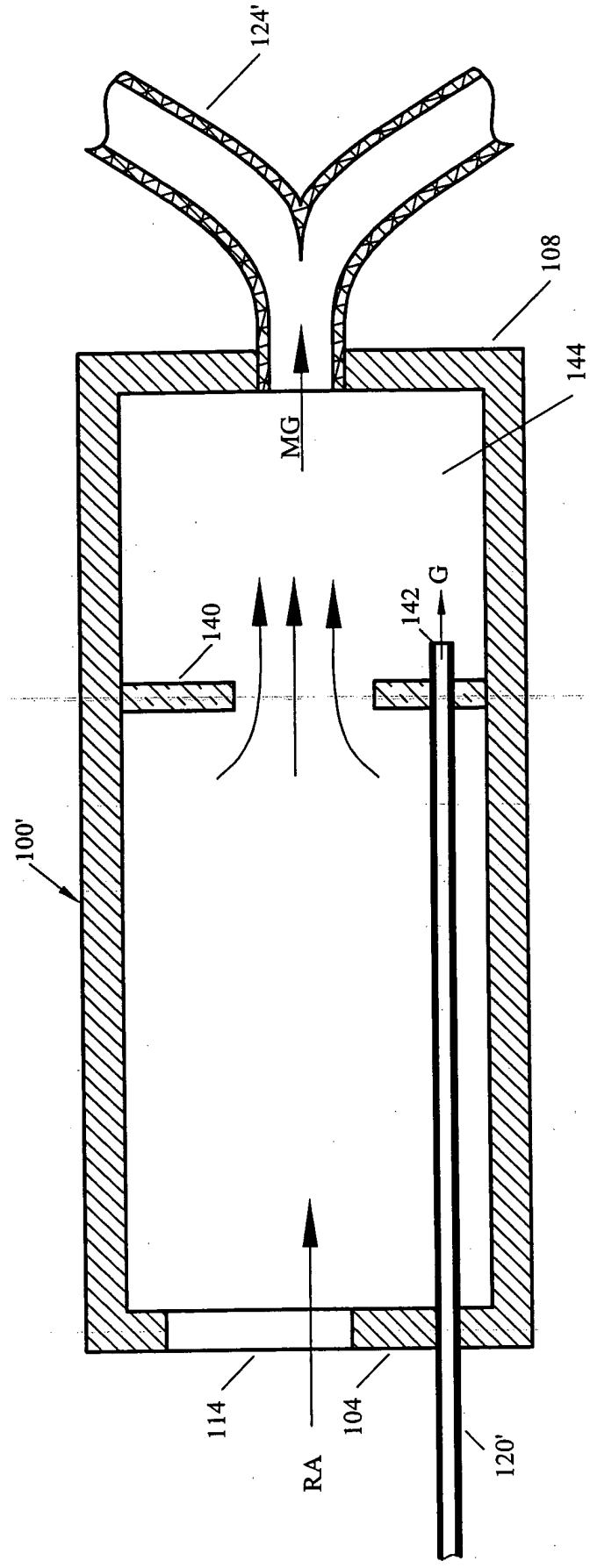


Figure 11: Side air entrainment port

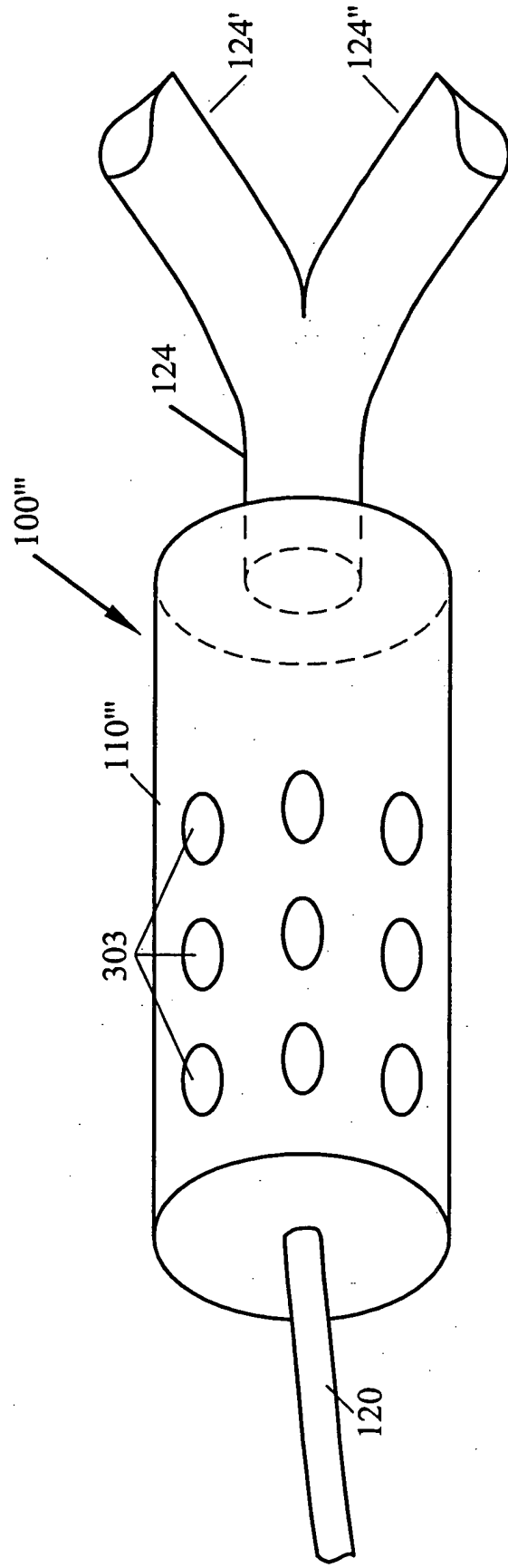


Figure 12: Entrainment Cell with check valve

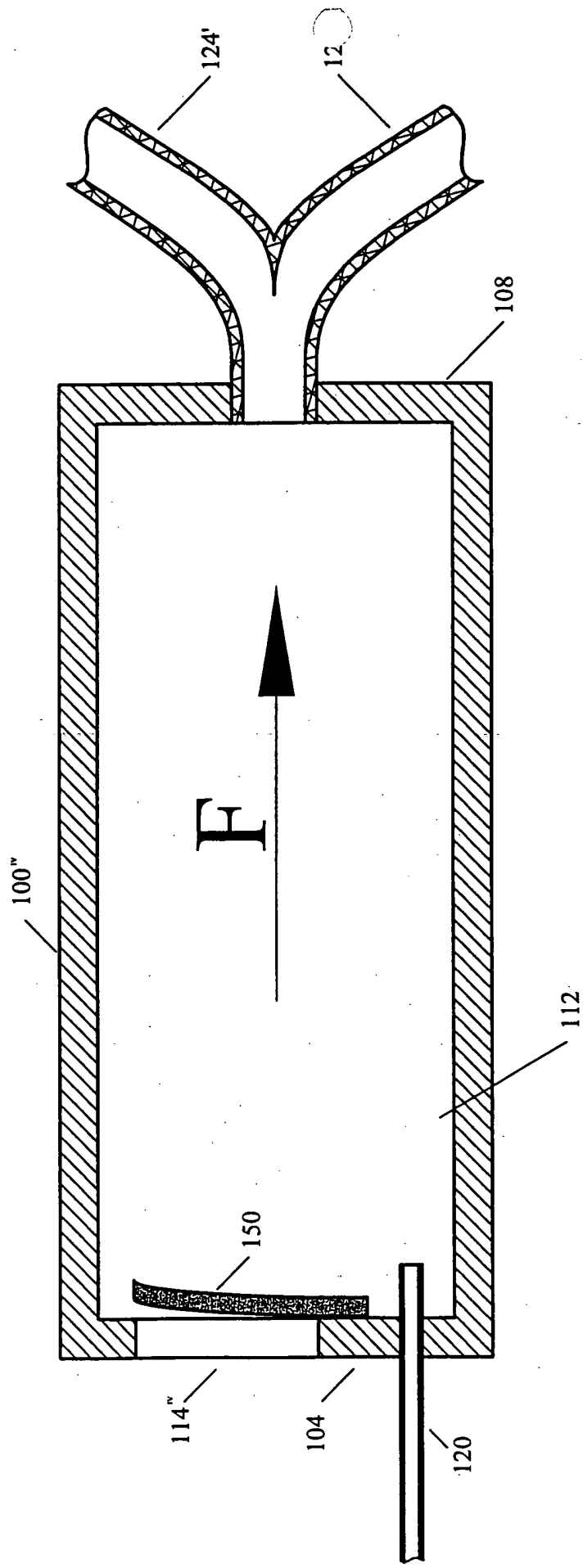


Figure 13A: Entrainment Cell with flow sensor

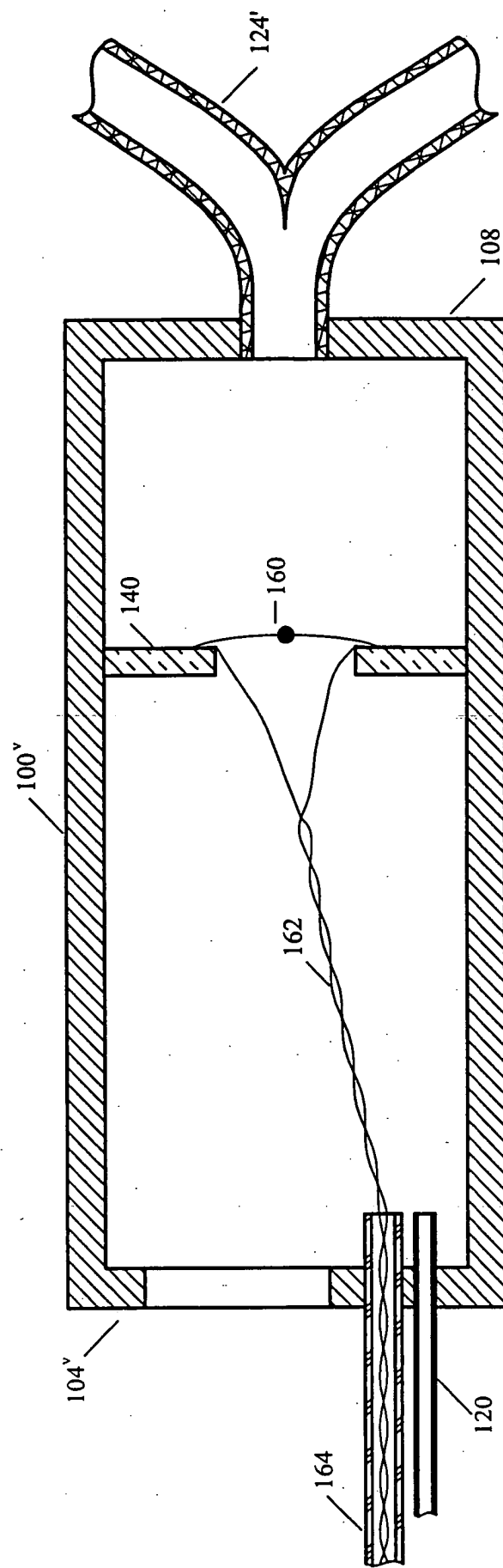


Figure 13B: Entrainment Cell with check valves
on therapeutic gas lumens. Sensor wiring routed
down a therapeutic gas lumen

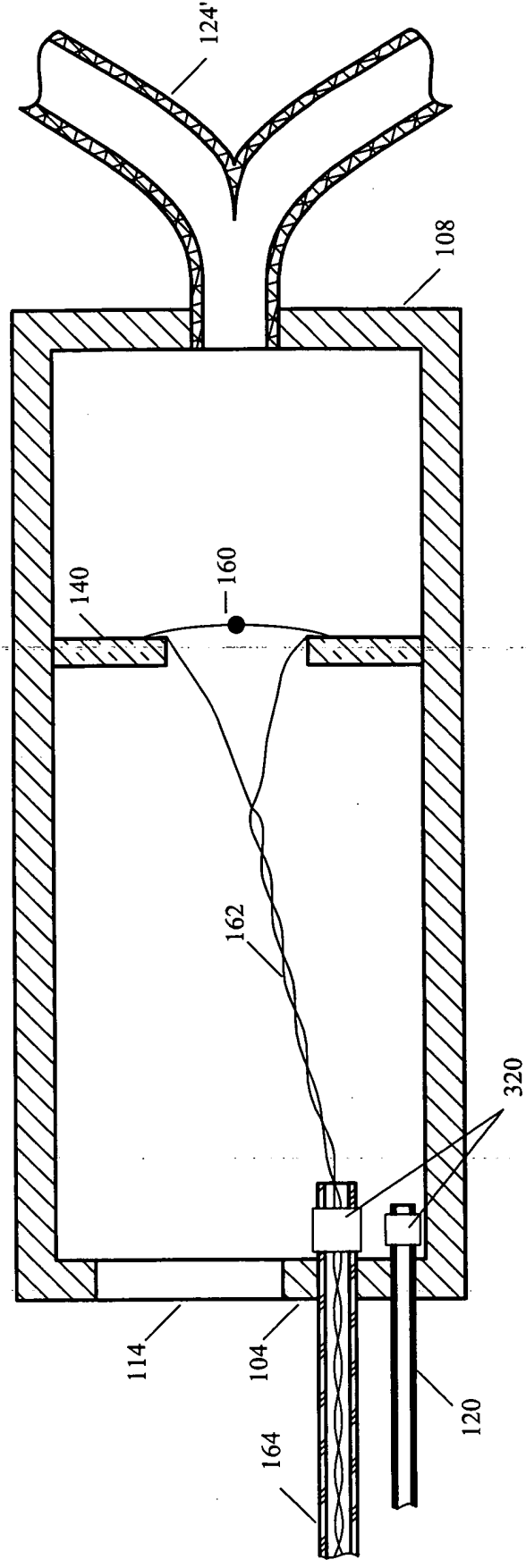


Figure 13C: Entrainment Cell with one gas mixing
near the upstream end of the cell. The other gas mixes
near the patient

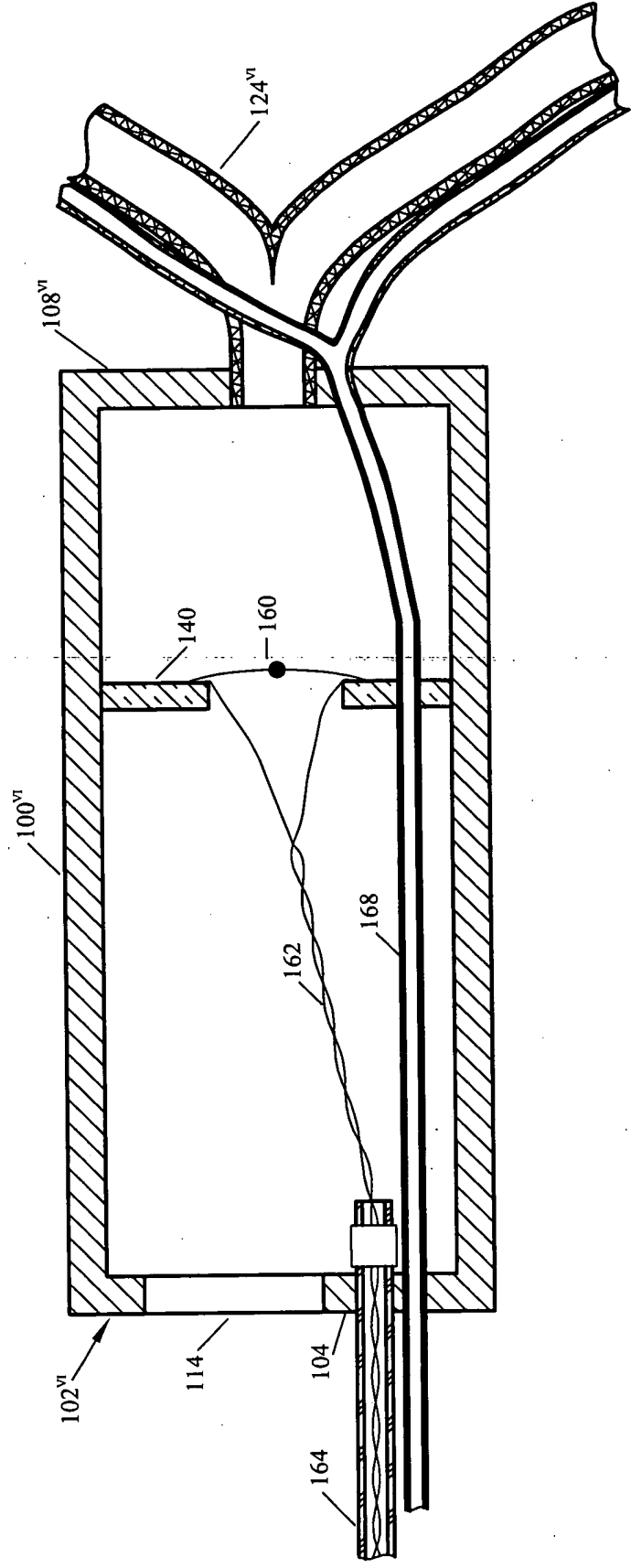


Figure 14A: Diluting cannula with mask, two therapeutic gases, and mixing near upstream end of entrainment cell

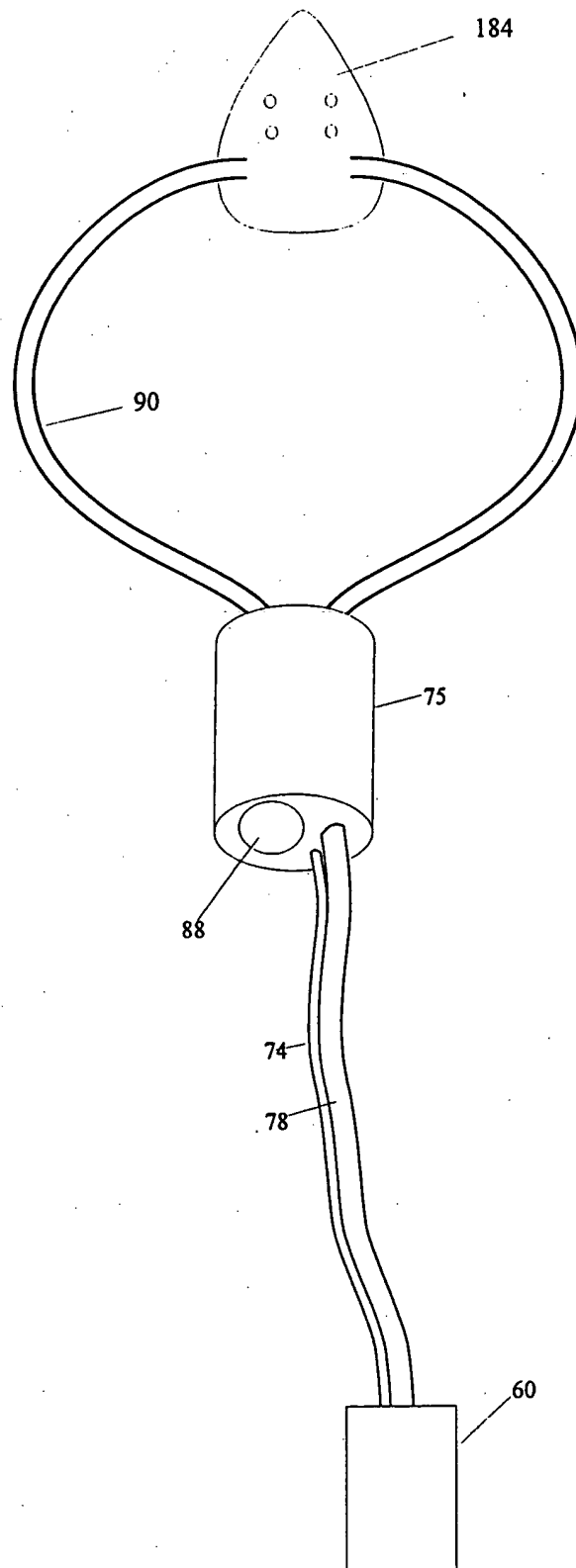


Figure 14B: Diluting cannula with mask, two therapeutic gases,
and mixing of one therapeutic gas near nose

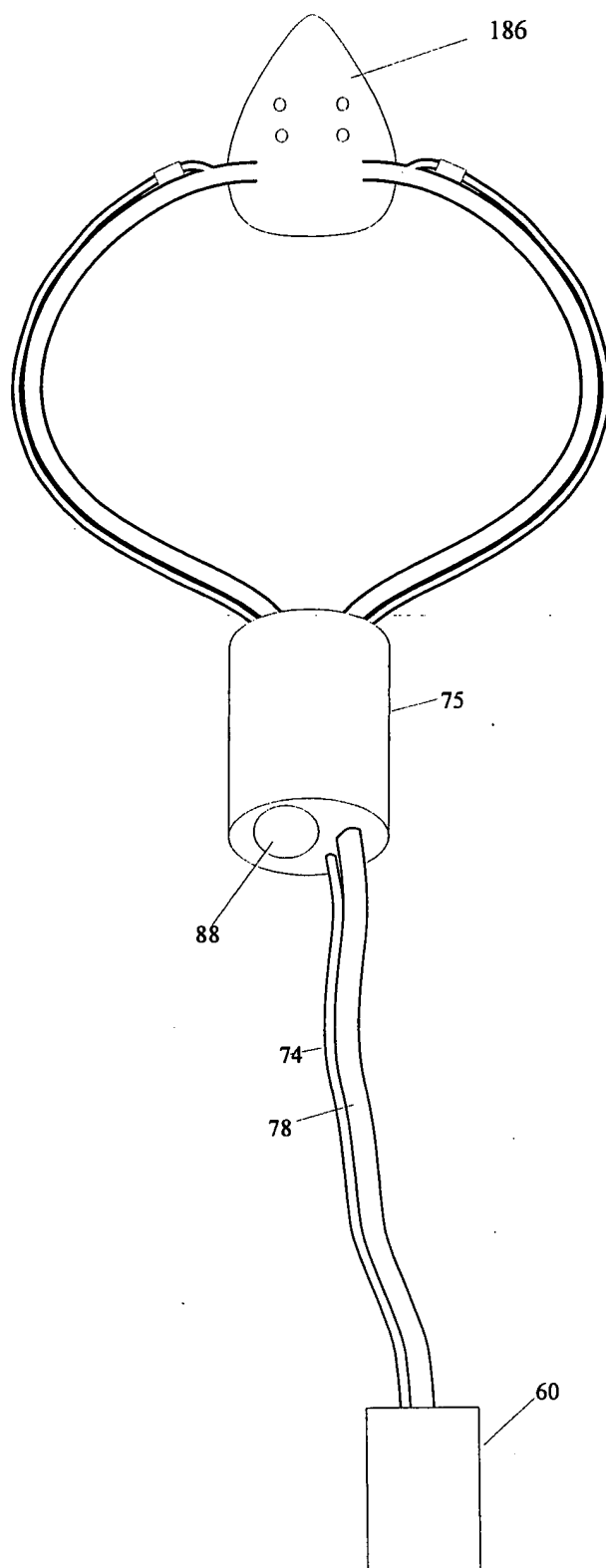


Figure 14D: Entrainment Cell Remote
From Mask

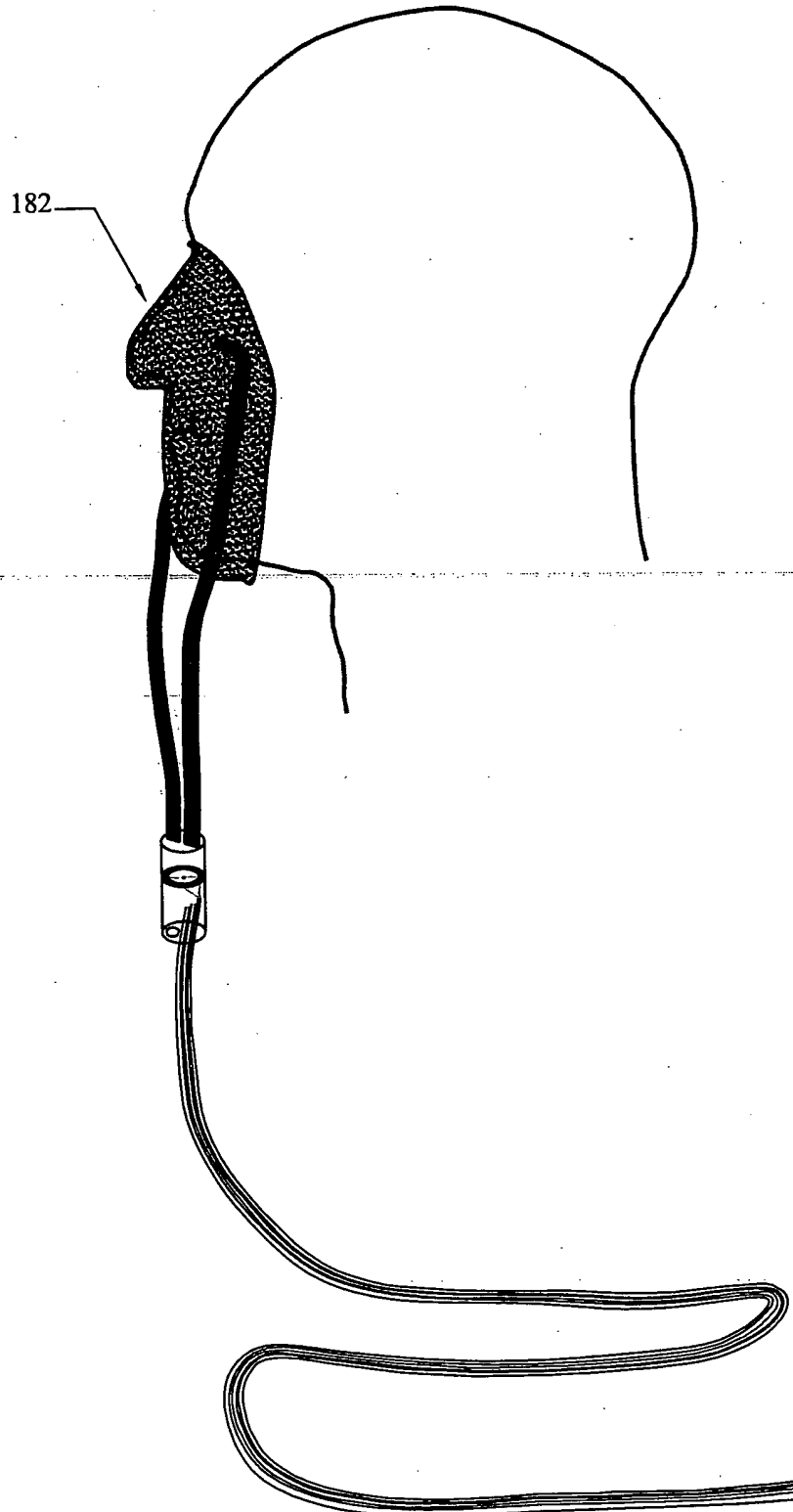


Figure 15: Pressure Equalization Valve Connected to a Cylinder

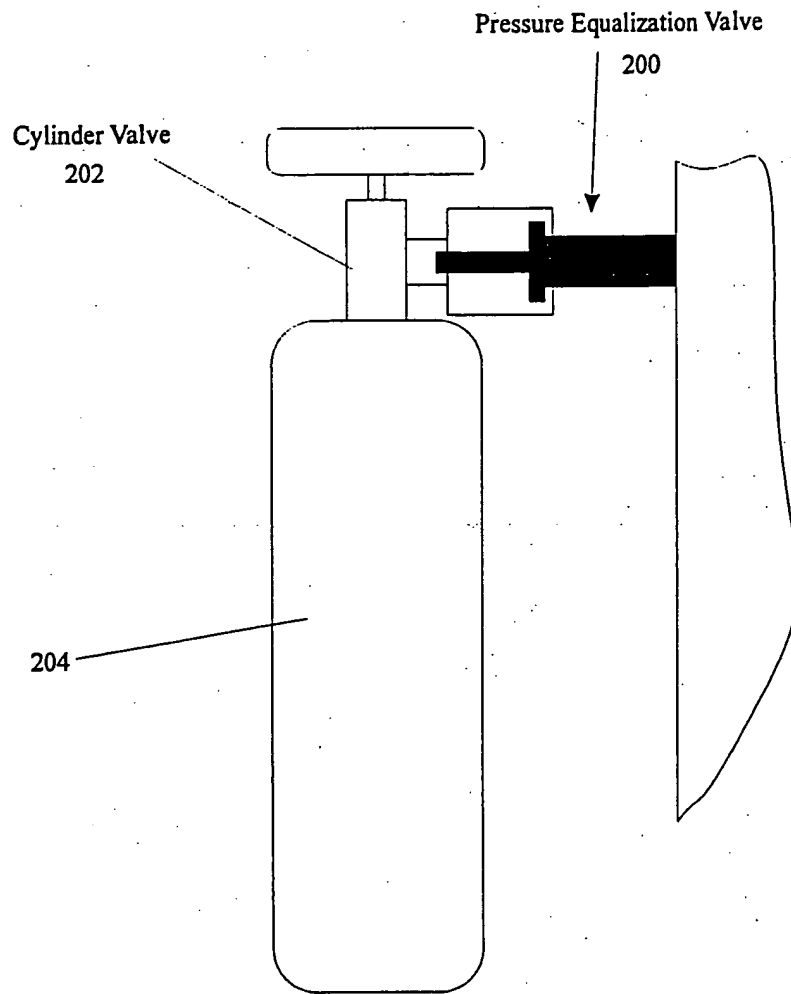


Figure 16: Pressure Equalization Valve
with High Pressure on Rear (Right) Side

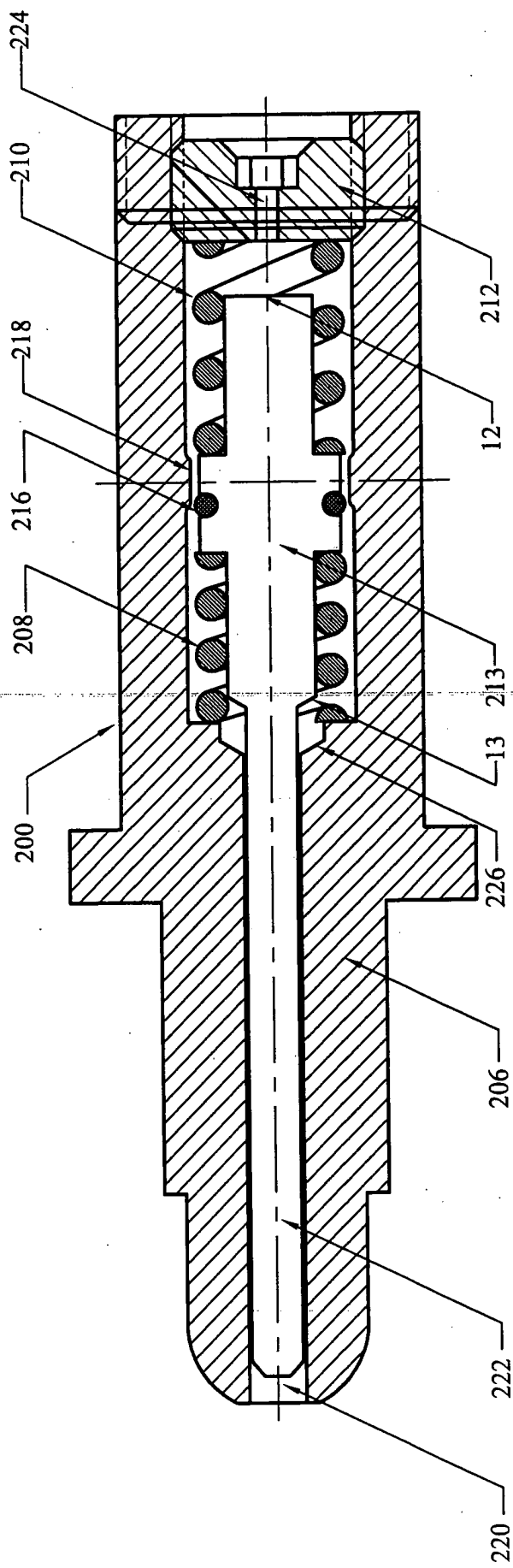
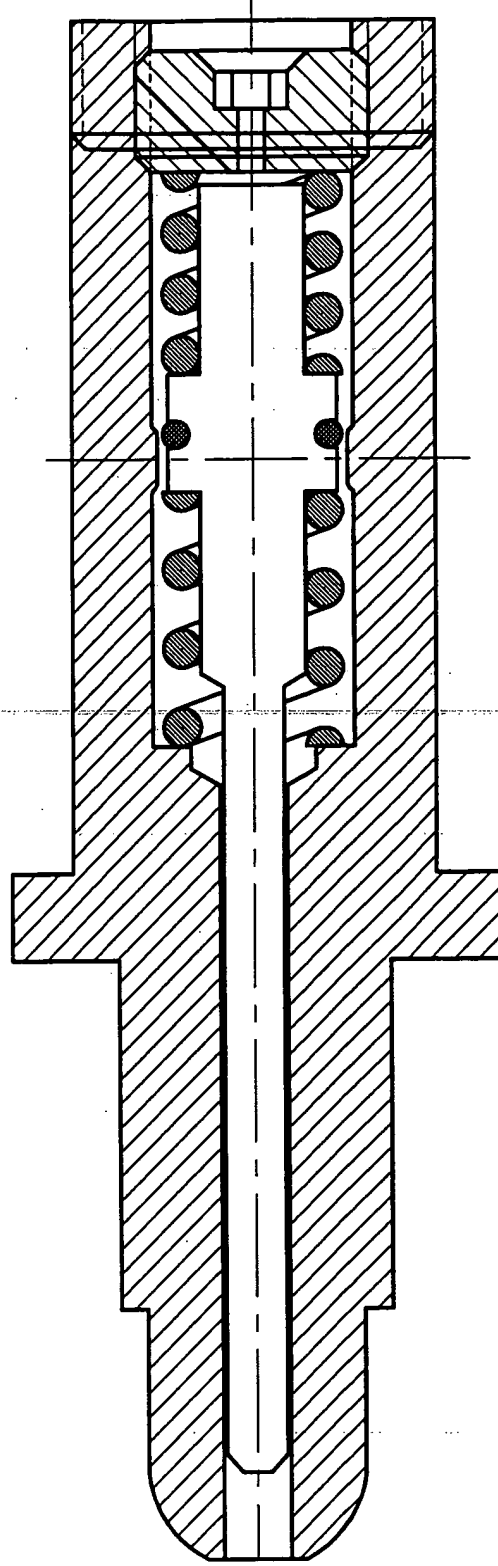


Figure 17: Pressure Equalization Valve
With High Pressure On Front (Left) Side



Delivery Controller Block Diagram

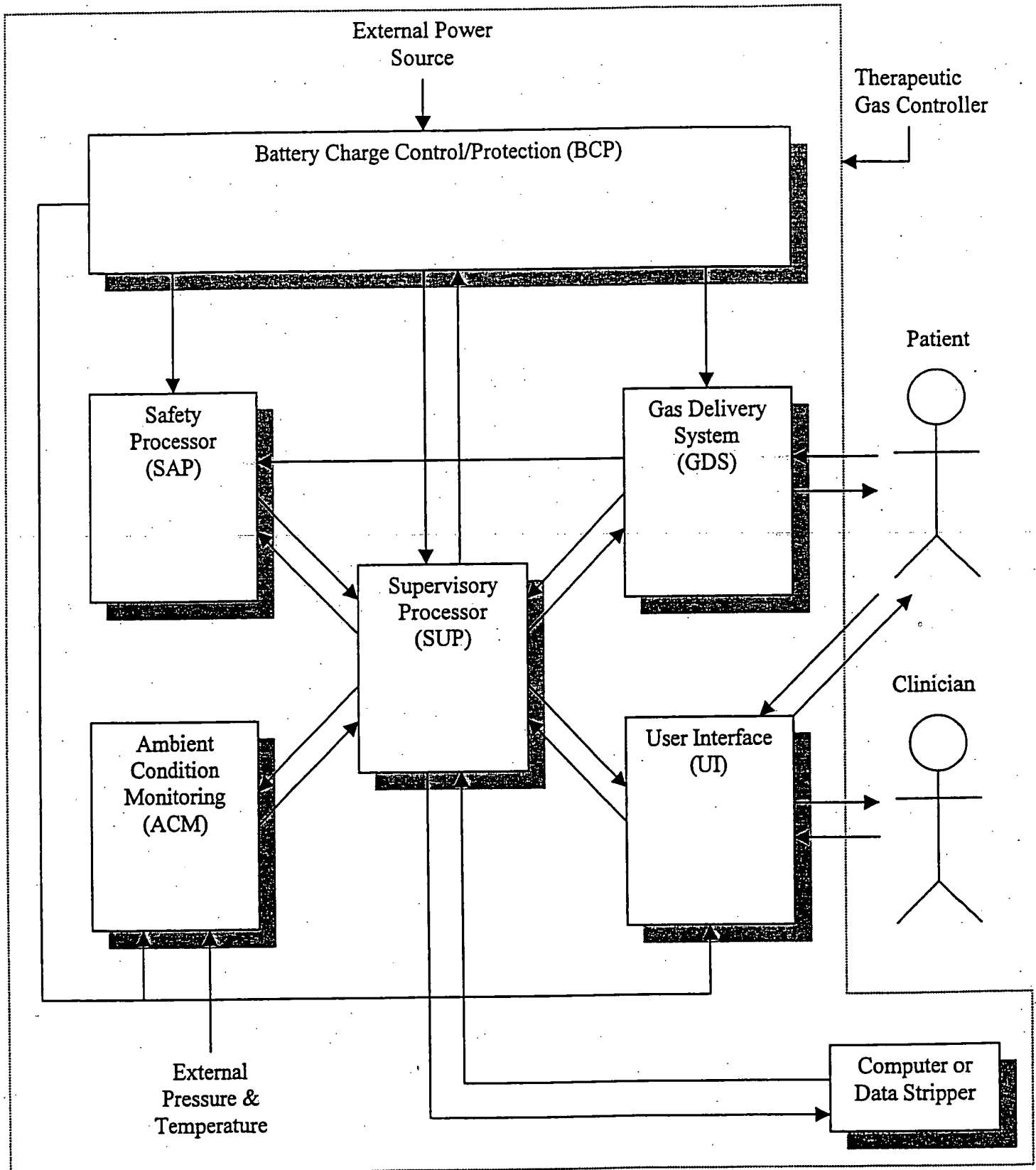


Figure 18A

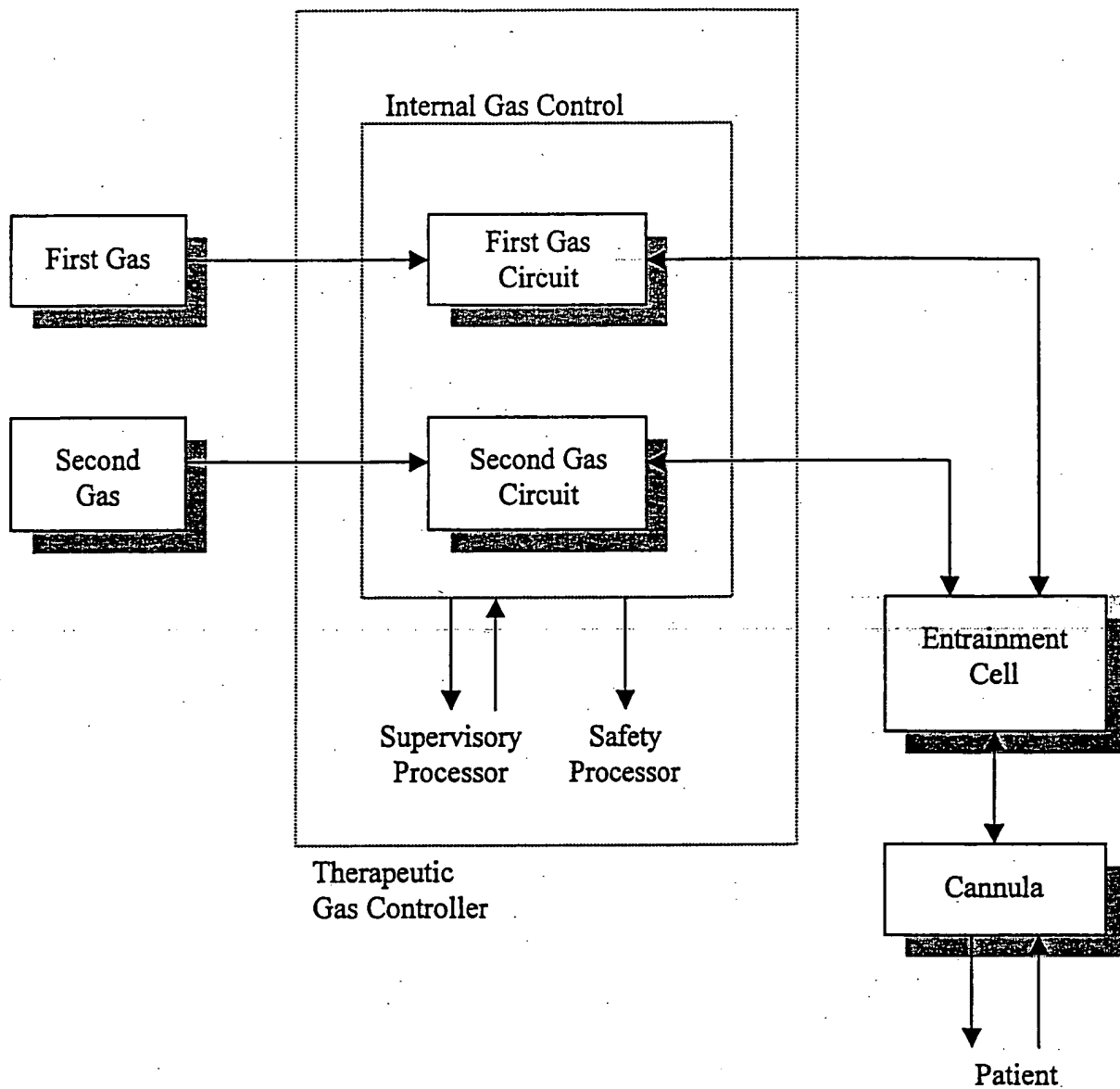


Figure 18B

Supervisory Processor Block Diagram

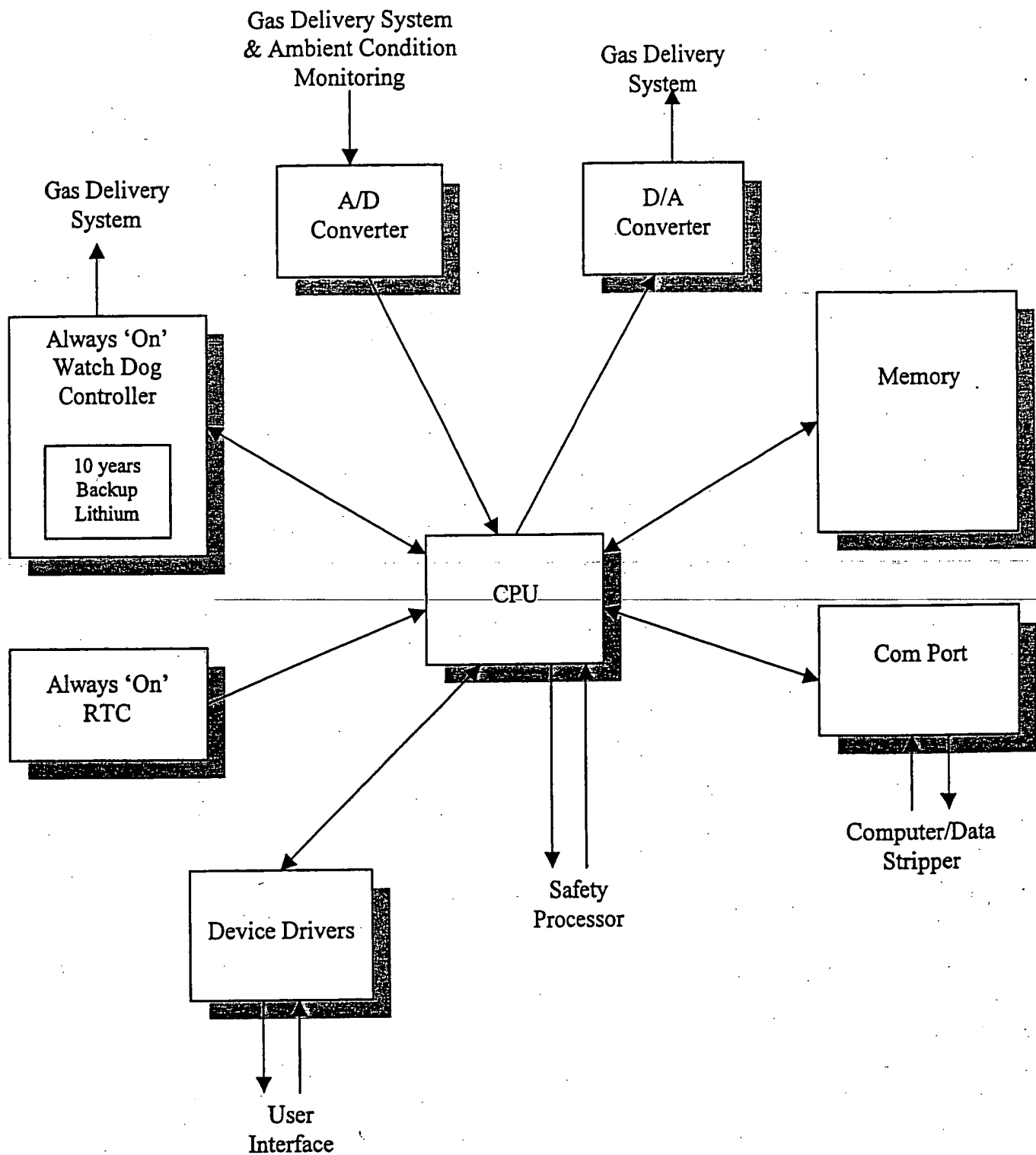


Figure 18C

User Interface Block Diagram

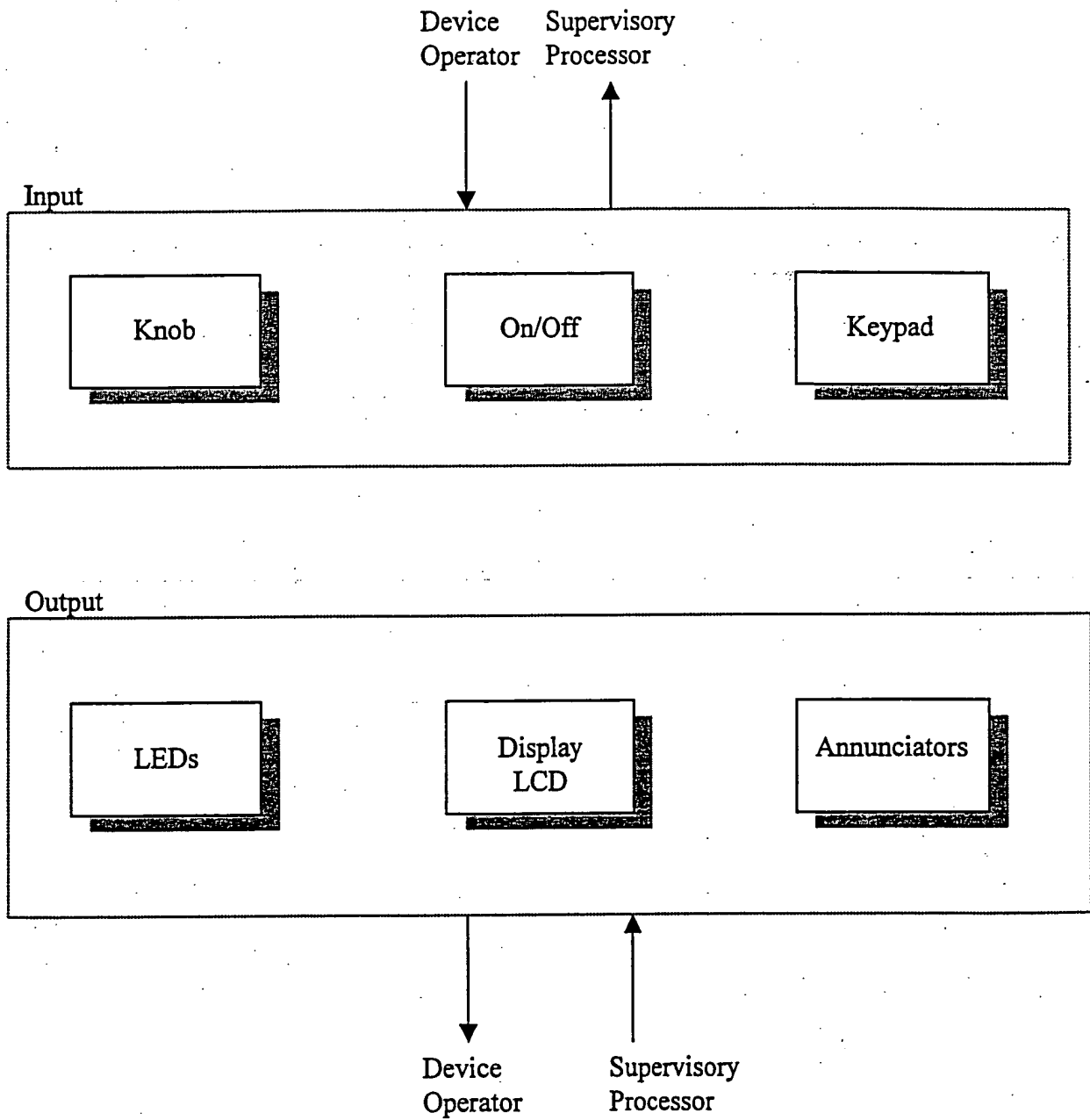


Figure 18D

Am Condition Monitoring Block Diagram

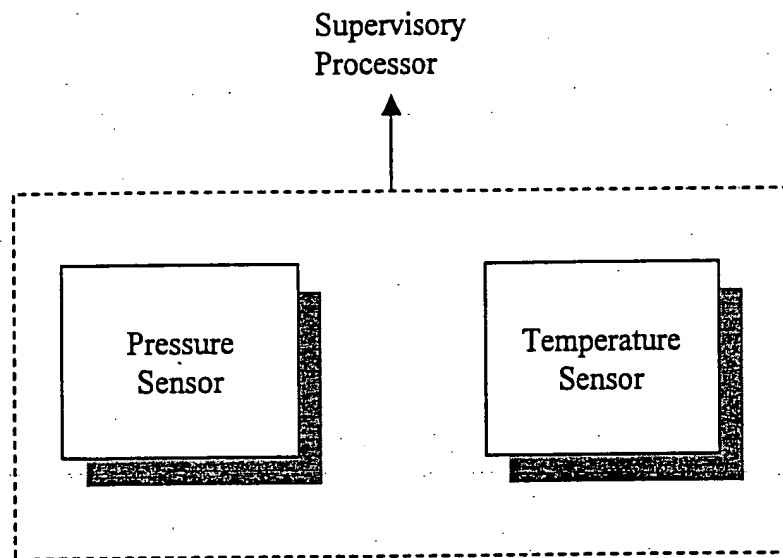


Figure 18E

* See *docname.sch* for a detailed circuit diagram

Safety Processor Block Diagram

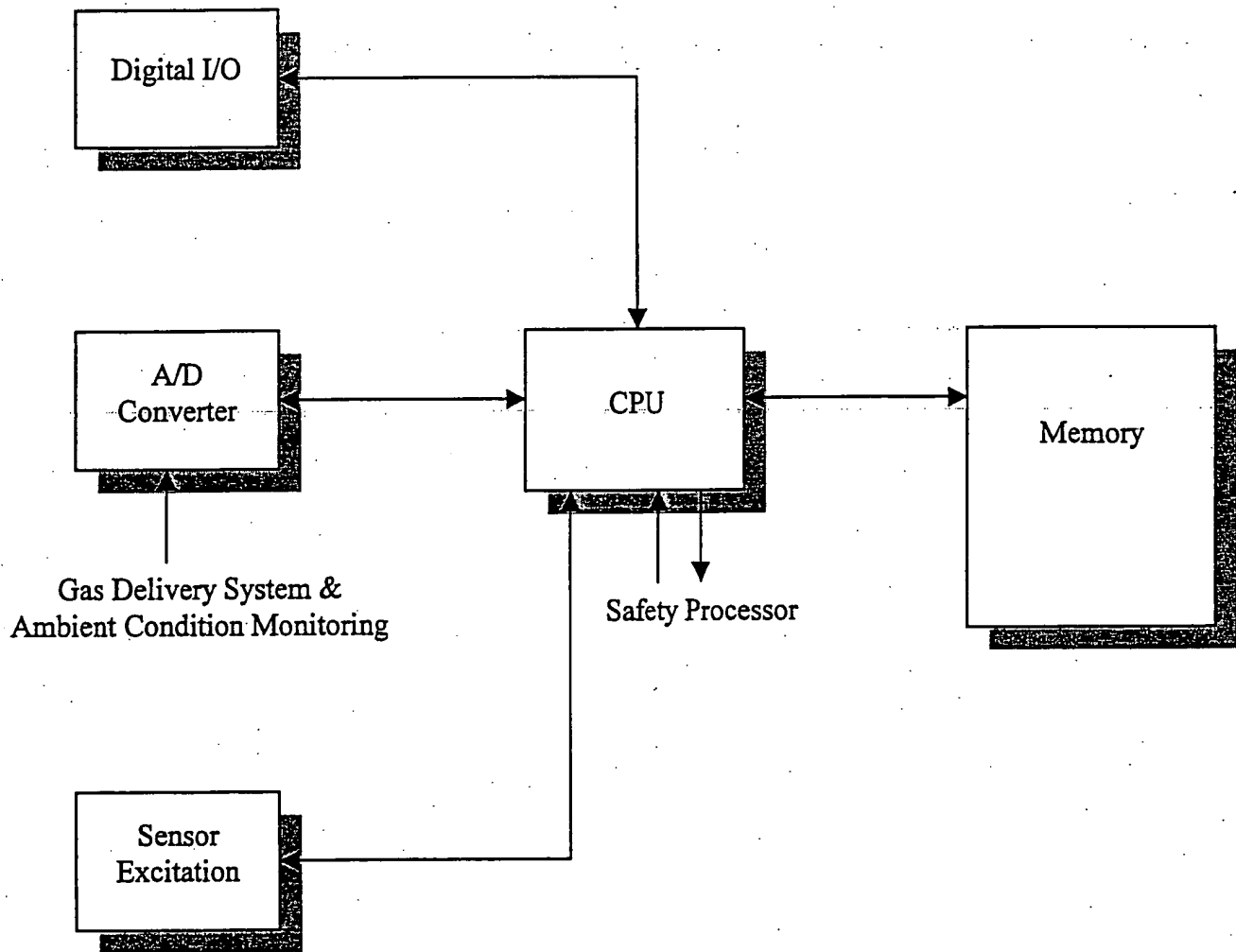


Figure 18F

Figure 19

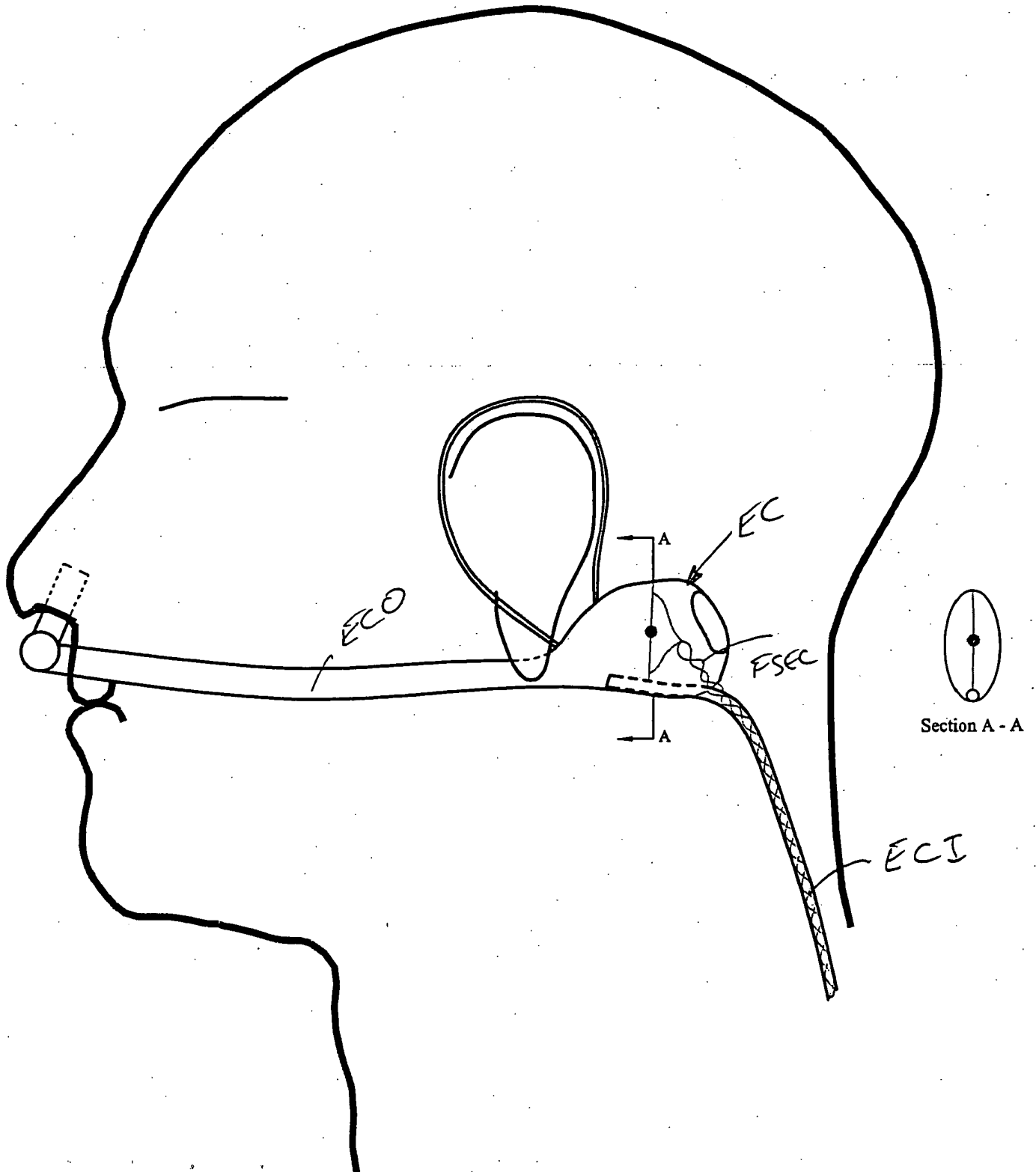
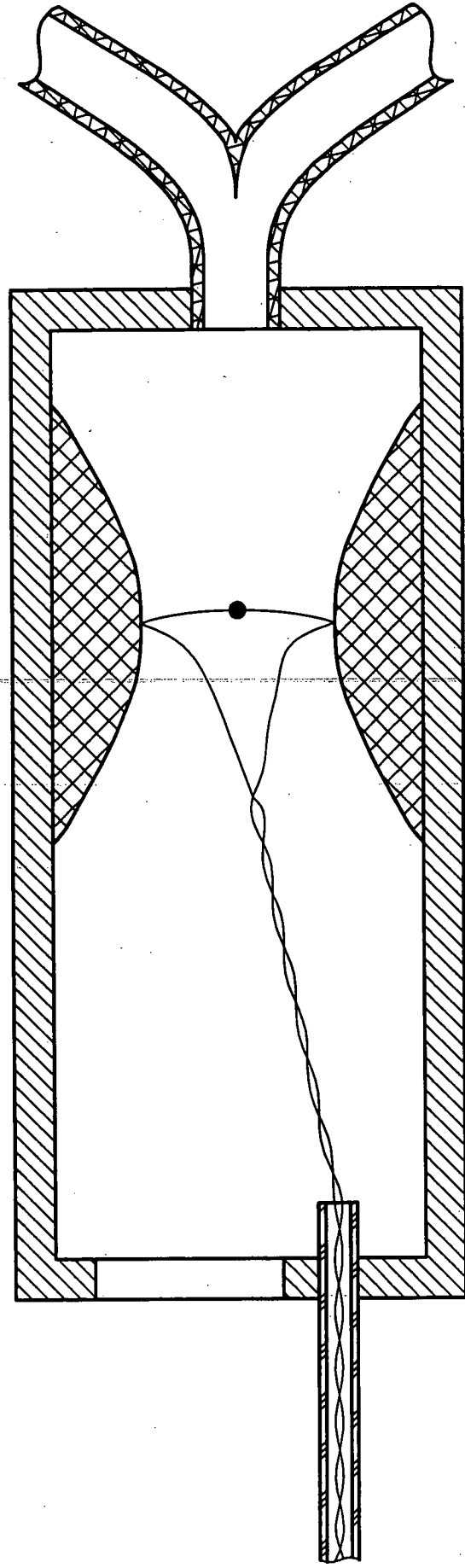


Figure 20: Entrainment Cell with shaped orifice



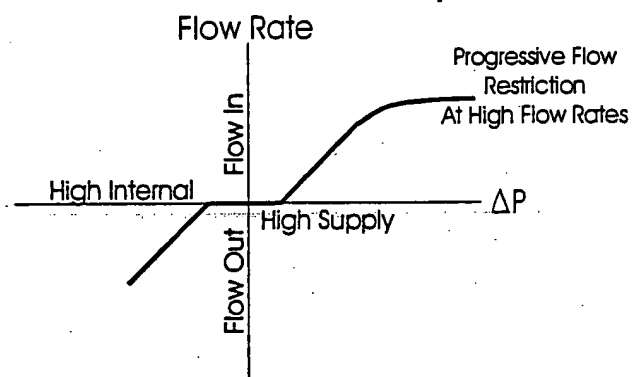


FIG. 21

Figure 14C: Er
Near

